

# INTERNATIONAL SEARCH REPORT

PCT/GB 03/03771

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 H04R9/04

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 H04R C21D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	PATENT ABSTRACTS OF JAPAN vol. 1998, no. 02, 30 January 1998 (1998-01-30) -& JP 09 275598 A (HITACHI LTD), 21 October 1997 (1997-10-21)	1, 2, 5-7, 9, 22-25, 30-32
A	abstract	3, 4, 8, 10-21, 26-29
X	GB 2 166 023 A (DELBUCK FASCAL) 23 April 1986 (1986-04-23)	1, 31, 32
A	page 1, line 56-85 page 3, line 126 -page 4, line 43 figure 7 page 6, line 53 -page 7, line 18 --- -/-	2-30

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

\* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*&\* document member of the same patent family

Date of the actual completion of the international search

5 March 2004

Date of mailing of the international search report

19/03/2004

Name and mailing address of the ISA

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PCT/GB 03/03771

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 91 06191 A (LYTH CHARLES DAVID) 2 May 1991 (1991-05-02) page 1, line 1-4 page 5, line 15 -page 6, line 6 page 9, line 9 -page 11, line 24 -----	1-32

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
JP 09275598	A	21-10-1997	NONE	
GB 2166023	A	23-04-1986	US 4590332 A	20-05-1986
WO 9106191	A	02-05-1991	AT 125999 T	15-08-1995
			AU 6630390 A	16-05-1991
			DE 69021390 D1	07-09-1995
			DE 69021390 T2	25-01-1996
			DK 496802 T3	18-09-1995
			EP 0496802 A1	05-08-1992
			ES 2077691 T3	01-12-1995
			WO 9106191 A1	02-05-1991
			GR 3017862 T3	31-01-1996
			US 5475765 A	12-12-1995



INVESTOR IN PEOPLE

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ABEL & IMRAY			
CASE NO. 8739			
G.O. <i>ST</i> <i>WA</i>			
07 FEB 2003			
A/C?	Y	N	<input checked="" type="checkbox"/>
CPA?	Y	N	COPIED

The Patent Office  
Patents Directorate

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Cardiff Road, Newport  
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Your Reference: JVN/8739 GB  
Application No: GB 0220575.5

4 February 2003

Dear Sirs

**Patents Act 1977: Search Report under Section 17(5)**

I enclose two copies of my search report and two copies of the citations.

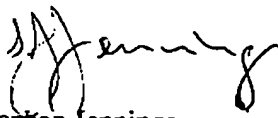
#### Publication

I estimate that, provided you have met all formal requirements, preparations for publication of your application will be completed soon after 27 January 2004. You will then receive a letter informing you of completion and telling you the publication number and date of publication.

#### Amendment/withdrawal

If you wish to file amended claims for inclusion with the published application, or to withdraw the application to prevent publication, you must do so before the preparations for publication are completed. No reminder will be issued. If you write to the Office less than 3 weeks before the above completion date, please mark your letter prominently: "URGENT - PUBLICATION IMMINENT".

Yours faithfully

  
Stephen Jennings  
Examiner

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Application No: GB 0220575.5  
Claims searched: 1-32

Examiner: Stephen Jennings  
Date of search: 4 February 2003

## Patents Act 1977 : Search Report under Section 17

### Documents considered to be relevant:

Category	Relevant to claims	Identity of document and passage or figure of particular relevance	
X	1,3-5,22,31-32	US 4353432	(Hasegawa) See figures 4,5
X	1,5,22,31-32	JP 550003232 A	(Sansui Electric Co) see figures 3 and 4
X	1,5,22-23,30-32	EP 1241917 A2	(Pioneer) See figure 4
A		GB 0694058	(Milnes) See figure 10, page 4 lines 34-46

### Categories:

X Document indicating lack of novelty or inventive step	A Document indicating technological background and/or state of the art.
Y Document indicating lack of inventive step if combined with one or more other documents of same category.	P Document published on or after the declared priority date but before the filing date of this invention.
& Member of the same patent family	E Patent document published on or after, but with priority date earlier than, the filing date of this application.

### Field of Search:

Search of GB, EP, WO & US patent documents classified in the following areas of the UKC<sup>v</sup>:

H4J

Worldwide search of patent documents classified in the following areas of the IPC<sup>7</sup>:

H04R

The following online and other databases have been used in the preparation of this search report:

WPI, EPODOC, JAPIO